

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-30 (Cancelled)

31. (New) A flame-retardant composition comprising a flame retardant organophosphorus compound impregnated on a porous solid support presenting an hydrophilic or hydrophobic surface, the organophosphorus compound having a hydrophilic or hydrophobic nature similar to said surface of the porous compound.

32. (New) The composition according to Claim 31, wherein the porous support is an inorganic oxide having a total pore volume of at least 0.5 ml/g.

33. (New) The composition according to Claim 32, wherein the inorganic oxide is an inorganic oxide having a total pore volume of at least 2 ml/g.

34. (New) The composition according to Claim 31, wherein the inorganic oxide is silica, alumina, silica-alumina, sodium aluminosilicate, calcium silicate, magnesium silicate, zirconia, magnesium oxide, calcium oxide, cerium oxide or titanium oxide.

35. (New) The composition according to Claim 31, being in powder form composed of porous granules or agglomerates having a mean diameter (D50) of greater than or equal to 60 µm.

36. (New) The composition according to Claim 35, wherein the granules or agglomerates are composed of an agglomeration particles or aggregates of which at least 80% by number have a size of less than 1 µm.

37. (New) The composition according to Claim 35, wherein the granules or agglomerates have a porosity of at least 0.5 ml/100 g.
38. (New) The composition according to Claim 34, wherein the inorganic oxide is a silica.
39. (New) The composition according to Claim 38, wherein the silica is an amorphous silica.
40. (New) The composition according to Claim 39, wherein the amorphous silica is a synthetic silica.
41. (New) The composition according to Claim 40, wherein the synthetic silica is a precipitated silica.
42. (New) The composition according to Claim 40, wherein the precipitated silica is in the form of substantially spherical beads with a mean diameter (D50) of at least 80 μm .
43. (New) The composition according to Claim 42, wherein the mean diameter (D50) is of at least 150 microns.
44. (New) The composition according to Claim 38, wherein the silica is a highly dispersible silica.
45. (New) The composition according to Claim 31, wherein the organophosphorus compound is liquid at ambient temperature.
46. (New) The composition according to Claim 31, wherein the organophosphorus compound is an phosphonic acid, a salt thereof, an ester thereof, a phosphoric ester, a phosphinic acid, a salt thereof or an ester thereof.

47. (New) The composition according to Claim 46, wherein the organophosphorus compound is methylbis(5-ethyl-2-methyl-2-oxido-1,2,3-dioxaphosphorinan-5-yl)methylphosphonic acid, a mixture of methylbis(5-ethyl-2-methyl-2-oxido-1,2,3-dioxaphosphorinan-5-yl)methylphosphonic acid with methyl(5-ethyl-2-methyl-2-oxido-1,3,2-dioxaphosphorinan-5-yl)methylphosphonic acid, resorcinol bis(diphenyl phosphate), bisphenol A bis(diphenyl phosphate), polyphosphate esters diethyl-phosphinic acid, ethylmethyl-phosphinic acid, methyl-n-propyl-phosphinic acid, an ester thereof or a salt thereof.

48. (New) The composition according to Claim 31, wherein the flame retardant has a weight concentration of between 20 and 70% relative to the weight of the composition.

49. (New) A process for producing a composition having flame retardancy properties as defined in Claim 31, comprising the step of impregnating the flame retardant on the porous support by a dry impregnation.

50. (New) The process according to Claim 49, wherein the flame retardant is a viscous liquid.

51. (New) The process according to Claim 50, wherein the viscosity of the flame retardant is greater than or equal to 100 centipoises at 25°C.

52. (New) The process according to Claim 51, wherein the viscosity of the flame retardant is greater than or equal to 1000 centipoises at 25°C.

53. (New) The process according to Claim 52, wherein the viscosity of the flame retardant is greater than or equal to 10000 centipoises at 25°C.

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Preliminary Amendment

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54. (New) A process for carrying out a flame retardancy treatment on polymers, comprising the step of incorporating by mixing a composition as defined in Claim 31 in said polymers.

55. (New) The process according to Claim 54, wherein the polymers are thermosetting polymers, thermoplastic polymers or elastomers.

56. (New) The process according to Claim 54, wherein the thermoplastic polymer are polyolefins, polyamides or polyesters.

57. (New) The process according to Claim 56 wherein the polyolefin is polypropylene.

58. (New) The process according to Claim 56, wherein the polymer is polyamide 6, polyamide 66, branched polyamides, star polyamides, polyamide 12, polyamide 11 or a mixture thereof.